

# Regional Water Augmentation Concepts

## “Region 2” – West Central Broward



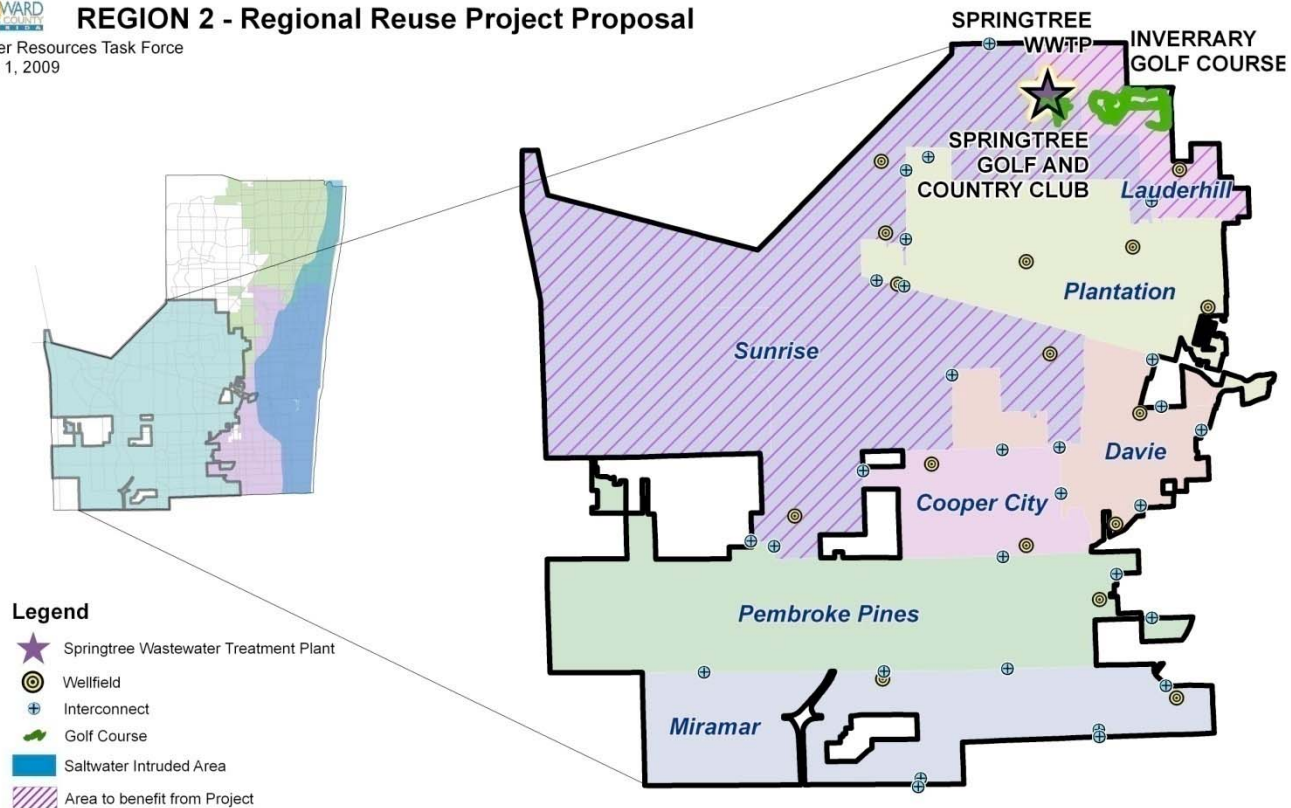
Water Resources Task Force  
May 1, 2009





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## REGION 2 - Regional Reuse Project Proposal



# Springtree Wastewater Plant



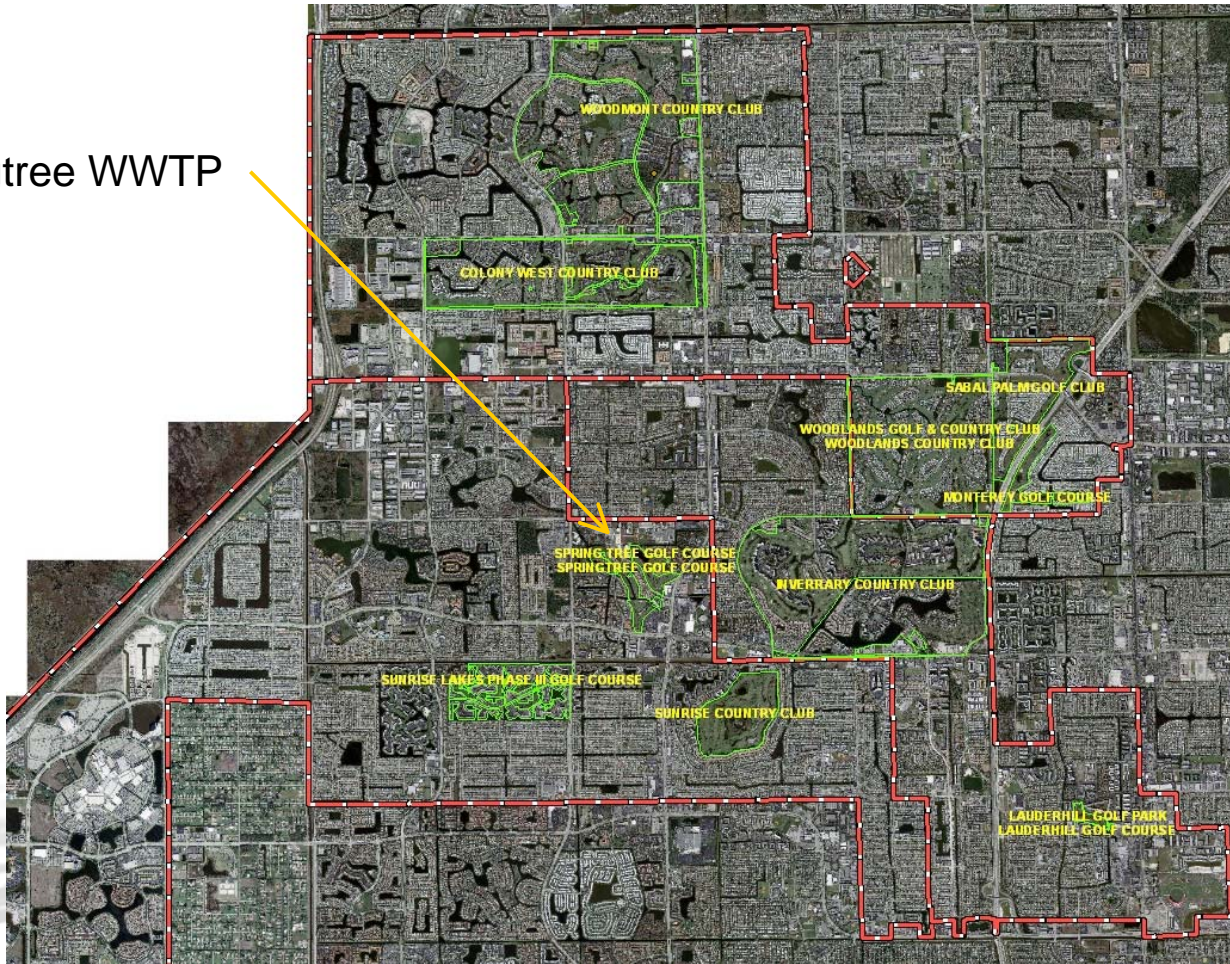
# Lauderhill/Sunrise Reuse Option

- Capacity Analysis Report
  - Required by FDEP with Operating Permit Renewal
  - Includes a “Reuse Feasibility Study”
- Concept: Add High Level Disinfection Treatment
- Construct “Purple Pipe” Distribution Network
- Provide Irrigation to Golf Courses in Lauderhill and Sunrise
  - Inverrary Golf & Country Club
  - Sunrise & Springtree Golf Courses



# Lauderhill/Sunrise Reuse Option

Springtree WWTP



# Lauderhill/Sunrise Reuse Option

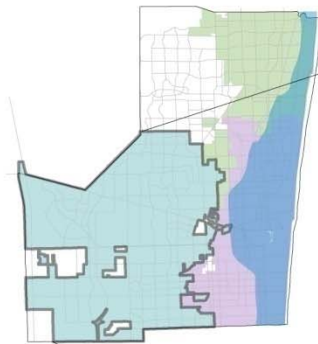
- Treatment Plant Upgrade Costs: \$30 Million
  - Based on 3 MGD Reuse Water (AADF)
- Distribution Network Construction: \$9 Million
  - Based on 7 mile pipe network
- Pump Station & Appurtenances: \$8 Million
- Total Capital Cost: \$47 Million (\$16 per gallon)





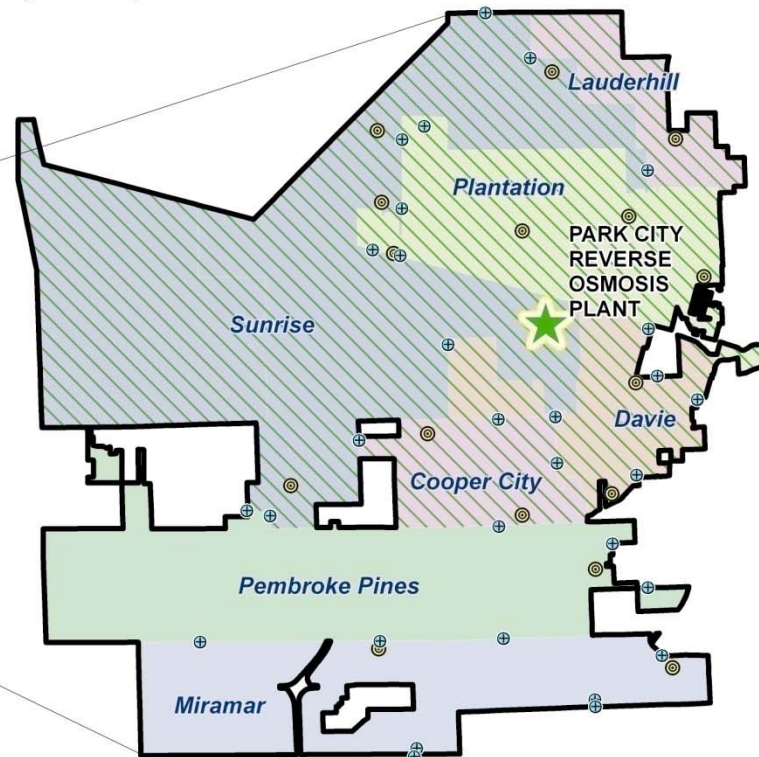
## REGION 2 - Regional Floridan Project Proposal

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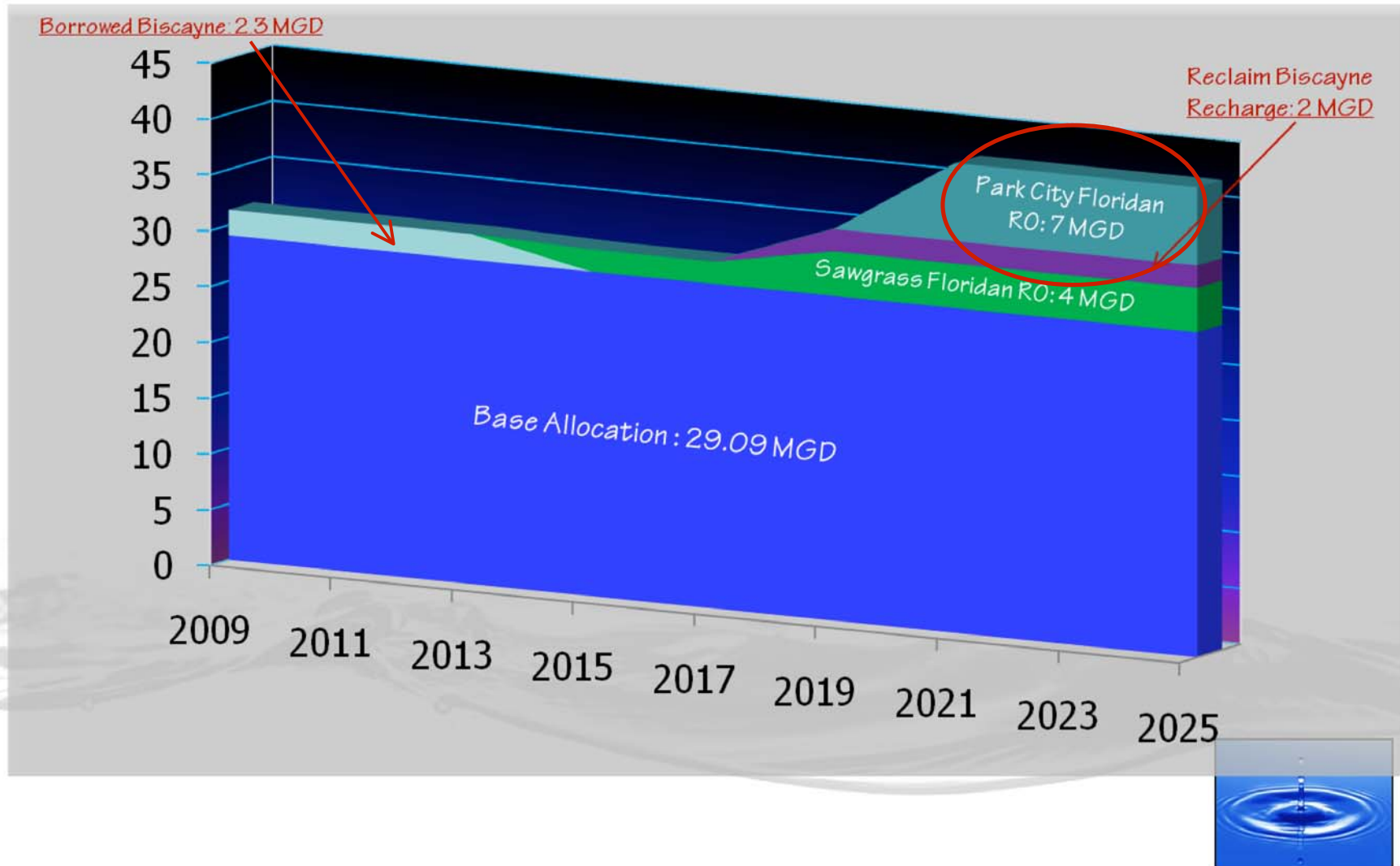


### Legend

- Park City Floridan Water Treatment Plant
- Wellfield
- Interconnect
- Saltwater Intruded Area
- Area to benefit from Project



# Water Supply by Source



# Sub-Regional Floridan RO Plant

- Sunrise committed to Park City RO Facility
  - Estimated Cost: \$49 Million (\$7 per gallon).
  - City owns existing treatment plant site.
- Existing Water Distribution Interconnects:
  - Town of Davie
  - Cooper City
  - Plantation



# Park City Floridan RO Plant

- Included in WUP.
- Approved WFWP.
- City owns site.
- Included in Master Plan
  - \$49 Million Capital Cost



# Sub-Regional Floridan RO Plant

- Alternative Water Supply Needs:
  - Sunrise : 7 MGD
  - Davie: 6 MGD
  - Cooper City: 2 MGD (?)
  - Plantation: 3 MGD
- Total: 18 MGD
- Peaking Factor (1.3): 24 MGD
- Estimated Cost: \$135 Million
  - Potential Savings: \$ 33 Million



**Whiskey is for drinking.  
Water is for fighting over.**

Samuel Langhorne Clemens

